

**7. City of Broken Bow to Unnamed Tributary of Yanubbe Creek at SE 1/4 of SE 1/4 of SE 1/4 of Section 18, T 6 S, R 24 E1M, McCurtain County, Oklahoma (Latitude 34° 01' 37.165" North, Longitude 94° 43' 22.270" West)**

**A. Copper**

A site-specific criteria modification study has been satisfactorily completed for copper for the City of Broken Bow **Public Works Authority** discharge to...

$$FWER_t = 0.0995$$

$$FWER_d = 0.1253$$

$$f = 0.6544$$

The results of the study allow any of the four following criteria to be utilized

$$C_{cst} = 5.20 \mu\text{g/L} \quad \text{Statewide criterion}$$

$$S_{cst} = 52.28 \mu\text{g/L} \quad \text{Option 1}$$

$$S_{cst} = 7.628 \mu\text{g/L} \quad \text{Option 2}$$

$$S_{cst} = 60.87 \mu\text{g/L} \quad \text{Option 3}$$

$$C_{ast} = 7.12 \mu\text{g/L} \quad \text{Statewide criterion}$$

$$S_{ast} = 71.58 \mu\text{g/L} \quad \text{Option 1}$$

$$S_{ast} = 10.45 \mu\text{g/L} \quad \text{Option 2}$$

$$S_{ast} = 83.34 \mu\text{g/L} \quad \text{Option 3}$$

**B. Zinc**

A site-specific criteria modification study has been satisfactorily completed for zinc for the City of Broken Bow **Public Works Authority** discharge to...

$$FWER_t = 0.6312$$

$$FWER_d = 0.7502$$

$$f = 0.7343$$

$$C_{cst} = 43.44 \mu\text{g/L} \quad \text{Statewide criterion}$$

$$S_{cst} = 68.82 \mu\text{g/L} \quad \text{Option 1}$$

$$S_{cst} = 58.33 \mu\text{g/L} \quad \text{Option 2}$$

$$S_{cst} = 77.75 \mu\text{g/L} \quad \text{Option 3}$$

$$C_{ast} = 47.96 \mu\text{g/L} \quad \text{Statewide criterion}$$

$$S_{ast} = 75.99 \mu\text{g/L} \quad \text{Option 1}$$

$$S_{ast} = 63.88 \mu\text{g/L} \quad \text{Option 2}$$

$$S_{ast} = 85.15 \mu\text{g/L} \quad \text{Option 3}$$